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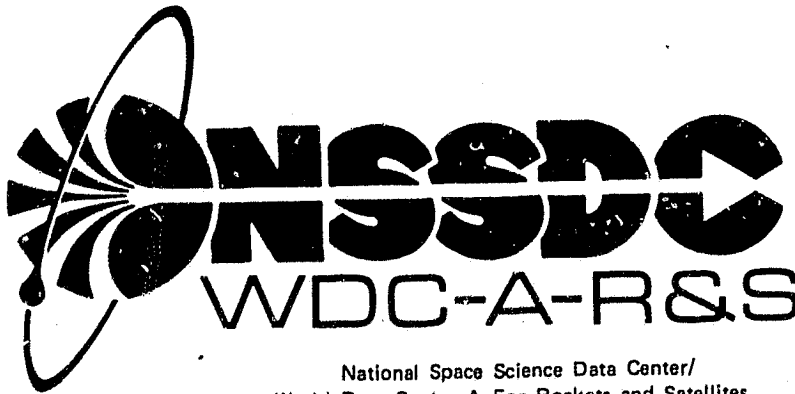
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MACHINE-READABLE VERSION OF A FINDING LIST
OF STARS OF SPECTRAL TYPE F2 AND EARLIER IN
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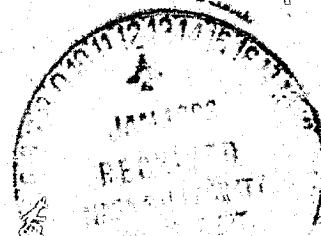
DOCUMENTATION FOR THE MACHINE-READABLE VERSION

OF

A FINDING LIST OF STARS OF SPECTRAL TYPE F2

AND EARLIER IN A NORTH GALACTIC POLE REGION

OCTOBER 1982



DOCUMENTATION FOR THE MACHINE-READABLE VERSION

OF

*A FINDING LIST OF STARS OF SPECTRAL TYPE F2
AND EARLIER IN A NORTH GALACTIC POLE REGION*

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October 1982

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TABLE OF CONTENTS

Section 1 - INTRODUCTION AND SOURCE REFERENCE	1-1
Section 2 - TAPE CONTENTS	2-1
Section 3 - TAPE CHARACTERISTICS	3-1
Section 4 - REMARKS, MODIFICATIONS AND REFERENCE	4-1
Section 5 - SAMPLE LISTING	5-1

LIST OF TABLES

Table

1 - Tape Contents, Data Files	2-1
2 - Tape Contents, Remarks File	2-3
3 - Tape Characteristics	3-1

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SECTION 1 - INTRODUCTION AND SOURCE REFERENCE

The machine-readable data set *A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region* is the result of an objective-prism survey made with the Hamburg 80-cm/120-cm Schmidt telescope. The F2 and earlier stars were isolated from later-type objects by using the MK classification criteria discussed in the source reference.

The catalogue contains 601 stars and includes cross identifications to the BD and HD catalogues, coordinates, photographic magnitudes and spectral types. A separate file contains the remarks from the original data tables merged with those following the data.

This document describes the machine-readable files as distributed by the Astronomical Data Center. It is intended to enable users to read and process the data without problems or guesswork. The source reference should be consulted for additional details concerning the observations, spectral classification, and magnitude sources and determinations. It is advisable, however, that a copy of this document be supplied with any machine-readable version of the catalogue.

SOURCE REFERENCE

Slettebak, A. and Stock, J. 1959, *A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region*, *Hamburger Sternwarte* 5, No. 5.

SECTION 2 - TAPE CONTENTS

Byte-by-byte descriptions of the contents of the three files of the catalogue are given in Tables 1 and 2. (The formats of files 1 [BD stars] and 2 [non-BD stars] are identical except that the BD and HD fields are always blank for the non-BD stars.) The suggested format specifications are for FORTRAN formatted read statements and can be modified depending upon individual programming and processing requirements. Since data fields contain blanks where data are absent, care must be exercised when processing the catalogue for certain purposes. Note that all remarks within the published data tables have been combined with the remarks following the tables and are present in the notes file. Alternate format specifications are given in parentheses.

Table 1. Tape Contents. A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region, Data Files

Byte(s)	Units	Suggested Format	Description
1- 3	---	I3	Running number used on the charts in the published paper.
4-10	---	A7	BD number. The sign is always in byte 4, the zone in bytes 5-6, and the number in bytes 7-10. All stars in file 1 have BD numbers. This field is always blank for the non-BD stars in file 2.
11-16	---	A6	Number in the <i>Henry Draper (HD) Catalogue</i> . Blank if star has no HD and always blank in file 2 records.
17-18	hours	I2	Right ascension (α) for equinox 1950.
19-22	min	F4.1	α
23-25	deg	I3 (A1,I2)	Declination (δ) for equinox 1950.
26-27	'	I2	δ
28-31	mag	F4.1	Photographic magnitude from HD or AGK2 catalogues or estimated from prints of the original plates by comparison with standard stars from Selected Areas. Intended for identification purposes only.
32	---	1X	Blank

Table 1. (continued)

Byte(s)	Units	Suggested Format	Description
33-41	----	9A1 (A9)	Spectral classification. Mt. Wilson luminosity classes in bytes 33-34. A temperature class (A, F) is always in byte 35, but temperature subclasses and peculiarities are not uniform within the data field.
42	---	A1	An asterisk if there is a note in the remarks file; otherwise blank.

Table 2. Tape Contents. A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region, Remarks File

Byte(s)	Description
1- 3	Star number in the data catalog.
4	"B" if the star belongs to the BD file, "N" if to the non-BD file.
5	Blank
6	Integer used to sequentially number remarks for the same star. Can be used alone or with byte 4 as a sort field for reordering the remarks properly if they become disorganized.
7-132	Remarks in upper and lower case characters.

SECTION 3 - TAPE CHARACTERISTICS

The information contained in Table 3 is sufficient for a user to describe the indigenous characteristics of the catalog files to a computer. Information easily varied from installation to installation, such as block size (physical record length), blocking factor (number of logical records per physical record), total number of blocks, tape density, and coding (EBCDIC, ASCII, etc.) is not included. These parameters should always be transmitted if secondary copies of the catalogue are supplied to other users or installations. Parameters relating to the three files of the catalogue are separated by commas.

Table 3. Tape Characteristics. *A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region*

NUMBER OF FILES	3
LOGICAL RECORD LENGTH	42, 42, 132
RECORD FORMAT	FB*
TOTAL NUMBER OF LOGICAL RECORDS	365, 236, 135

* Fixed block length (last block may be short)

SECTION 4 - REMARKS, MODIFICATIONS AND REFERENCE

The data set *A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region* was received from the Centre de Données Stellaires, Strasbourg. As received, the data were contained in a single file with 626 logical records of length 80 bytes. Each data table was preceded by a brief title and data explanation and the notes were not included. The following modifications were made to produce the three-file catalogue described here:

1. The single file was divided into two files, one for the BD stars and one for the non-BD stars, as the tables are separate in the original publication. All but the data records were deleted, since explanatory material of greater detail is now contained in the document.
2. From a record count and comparison with the published paper, two missing records were discovered. These were added to the files. Ampersands (from BCD coding) were changed to plus signs on all BD numbers and declination values.
3. The spectral-type field was moved and made more uniform by shifting types so that a temperature class is always in byte 35 (see Table 1, bytes 33-41).
4. Information from the "Remarks" columns in the published tables and the notes to the tables was combined, computerized and added as a third file. For each star having a remark or remarks in the notes file, an asterisk (*) was added to byte 42 of its record in the data files.
5. The logical record length of both data files was shortened from 80 bytes to 42 bytes since bytes 43-80 were never used.

REFERENCE

Slettebak, A. and Stock, J. 1959, *A Finding List of Stars of Spectral Type F2 and Earlier in a North Galactic Pole Region*, *Hamburger Sternwarte* 5, No. 5.

SECTION 5 - SAMPLE LISTING

The sample listings given on the following pages contain logical data records exactly as they are recorded on the magnetic tape. A sample listing is shown for each file; each listing contains groups of records from the beginning and end of the file. The beginning of each record and bytes within the record are indicated by the column heading index (digits read vertically).

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